

35EH5

Power Pentode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) $35 \pm 10\%$ volts
Current at 35 volts 0.15 amp

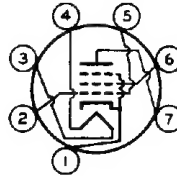
Direct Interelectrode Capacitances
(Approx.):[▲]

Grid No.1 to plate. 0.65 μf
Grid No.1 to cathode & grid No.3,
grid No.2, and heater 17 μf
Plate to cathode & grid No.3,
grid No.2, and heater 9 μf

Mechanical:

Operating Position. Any
Maximum Overall Length. 2-5/8"
Maximum Seated Length 2-3/8"
Length, Base Seat to Bulb Top (Excluding tip) $2" \pm 3/32"$
Diameter. 0.650" to 0.750"
Dimensional Outline See *General Section*
Bulb. T5-1/2
Base. Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW. 7CV

Pin 1 - Cathode,
Grid No.3
Pin 2 - Grid No.1
Pin 3 - Heater



Pin 4 - Heater
Pin 5 - Grid No.1
Pin 6 - Grid No.2
Pin 7 - Plate

AF POWER AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE 150 max. volts
GRID-No.2 (SCREEN-GRID) VOLTAGE 130 max. volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:
Positive-bias value 0 max. volts
GRID-No.2 INPUT 1.75 max. watts
PLATE DISSIPATION 5 max. watts
PEAK HEATER-CATHODE VOLTAGE:
Heater negative with
respect to cathode. 200 max. volts
Heater positive with
respect to cathode. 200* max. volts
BULB TEMPERATURE (At hottest point
on bulb surface). 225 max. °C



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Electron Tube Division
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DATA 1
8-60

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Typical Operation and Characteristics:

Plate Supply Voltage.	110	volts
Grid-No.2 Supply Voltage.	115	volts
Cathode Resistor.	62	ohms
Peak AF Grid-No.1 Voltage	3	volts
Zero-Signal Plate Current	32	ma
Max.-Signal Plate Current	32	ma
Zero-Signal Grid-No.2 Current	7.2	ma
Max.-Signal Grid-No.2 Current	12	ma
Plate Resistance (Approx.).	14000	ohms
Transconductance.	12000	μ hos
Load Resistance	3000	ohms
Total Harmonic Distortion	8	%
Max.-Signal Power Output.	1.2	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation.	0.1 max.	megohm
For cathode-bias operation.	0.5 max.	megohm

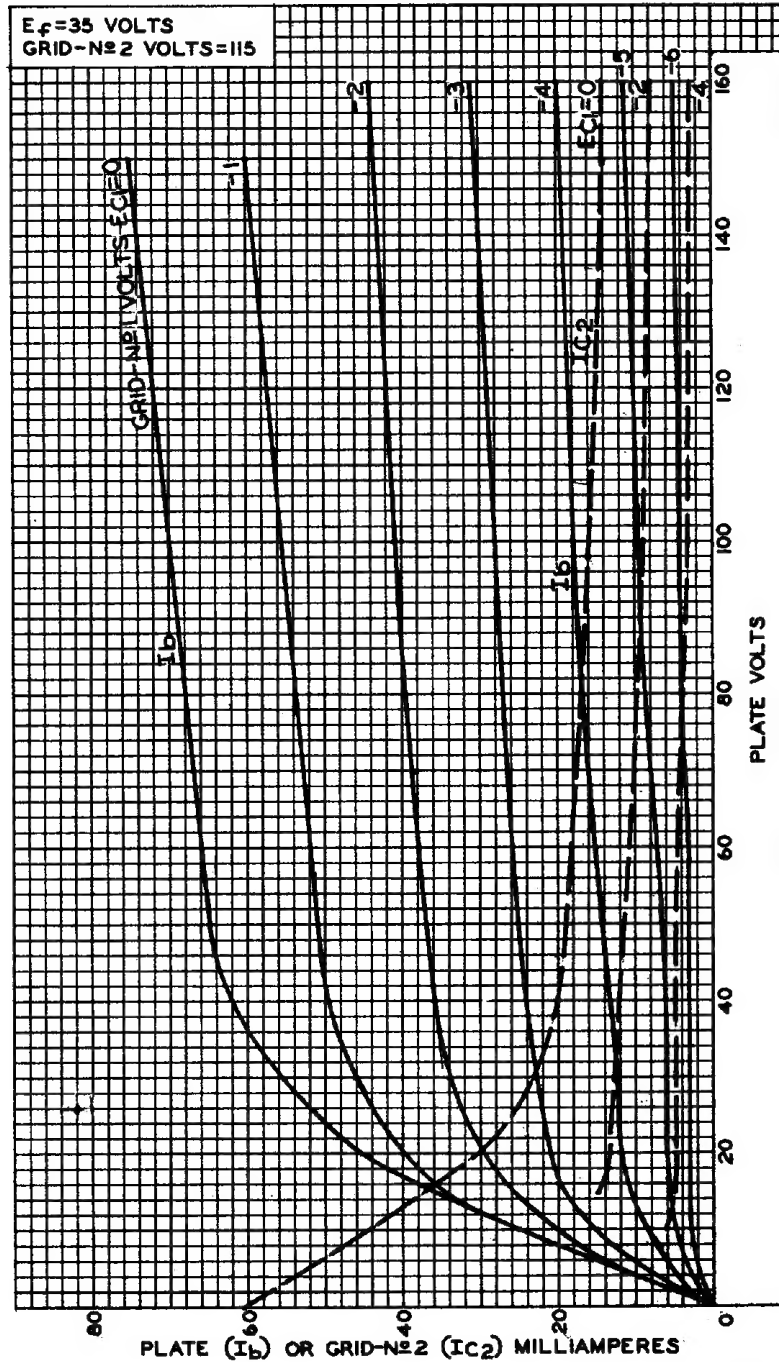
▲ Without external shield.

● The dc component must not exceed 100 volts.



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AVERAGE CHARACTERISTICS



92CM-10551

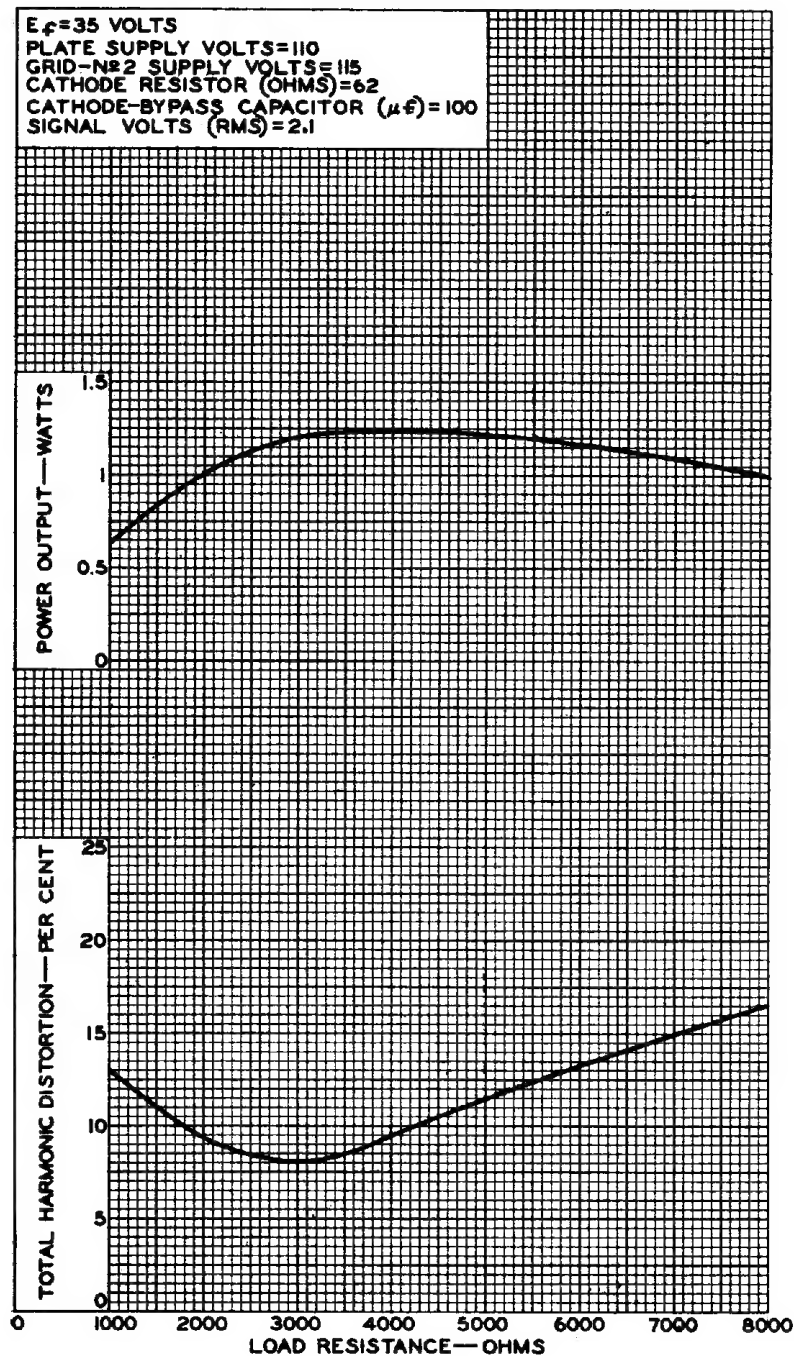


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DATA 2
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35EH5

OPERATION CHARACTERISTICS



92CM-10547

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